

# ALGEBRA 2

Tues., Sept. 3/Wed., Sept. 4

Functions, Domain, & Range Handout

Sec. 1.3 pp. 26-28  
3-7, 9, 11-12, 26

Thurs., Sept. 5/Fri., Sept. 6

Sec. 1.3 pp. 26-28  
8, 10

Writing Linear Equations Handout

Mon., Sept. 9/Tues., Sept. 10

Real World Modeling with Linear Functions Handout

Start Prediction Equations & Regression Lines Handout

Do #1-5 for each problem-- NO HOMEWORK COUPON!

Will be graded as  
separate assignments

Wed., Sept. 11/Thurs., Sept. 12

Finish Regression Handout -- NO HOMEWORK COUPON!

Graphs of Linear Functions Handout

Writing Equations of Graphs of Linear Functions Handout

Reminder:  
Journal Due  
Next Class!

Fri., Sept. 13/Mon., Sept. 16

Quick Intro to Piecewise Functions

Review for Ch. 1 Test

*Journal Due*

Tues., Sept. 17/Wed., Sept. 18

**Linear  
Functions  
Test**

*Math  
Matters  
Due  
Next  
Class*

## ANSWERS

### Sec. 1.3 pp. 26-28

4.  $y = -\frac{1}{30}x + 12$ ; The fuel decreases  $\frac{1}{30}$  gal. for every mile driven
6.  $y = \frac{3}{2}x$ ; The height increases 1.5 ft. each year
12. Slope was miscalculated; The slope is 11, so the income is \$11 per hour.
26. a)  $-5/4$ ; the decrease in balance per month  
b) D:  $0 \leq x \leq 24$ ; R:  $0 \leq y \leq 3000$   
Domain: term of the balance of the loan; Range: balance of the loan  
c) \$1500
- 

8.  $y = -60x + 480$ ; The volume decreases 60 cu. ft. per hour
10. a)  $y - 212 = \frac{9}{5}(x - 100) ^\circ\text{F} \Rightarrow y = \frac{9}{5}x + 32$   
b)  $71.6^\circ$   
c).  $x = \frac{5}{9}(y - 32)$   
d) about  $28.33^\circ\text{C}$
16. No